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FIBER ORGANON

Formerly Textile Organon

Volume 60, No. 4 April 1989

A publication of Fiber Economics Bureau, Inc.

TO OUR SUBSCRIBERS:

As you will note on the masthead of this issue, we have changed the name of the TEXTILE ECONOMICS BUREAU, INC. to FIBER ECONOMICS BUREAU, INC. Our most widely circulated publication, the TEXTILE ORGANON, will henceforth be named FIBER ORGANON. We believe these changes better reflect the current work of the Bureau and the content of our publications.

The FIBER ORGANON will continue to be one of the most respected industry statistical data books in the world. We are proud of its well-deserved reputation for timeliness and accuracy. The Bureau will maintain its dedication to the high standards for data coverage set almost 60 years ago. The first issue, called the Textile Economist, was published in July 1930, as a periodical for the Tubize Chatillon Corporation. In 1931, the name was changed to Textile Organon. The Textile Economic Bureau, Inc. was established in October 1935, and the name Rayon Organon was used until 1952 when the title Textile Organon was again adopted.

As we look to the years ahead, we welcome your comments on the FIBER ORGANON to help us improve its usefulness to everyone interested in manufactured fiber data.

Rosemarie D. Frick

Rosemarie D. Frick
President & Editor

U.S. CHANGING TO HARMONIZED TARIFF SYSTEM

On January 1, 1989, the United States changed to the new Harmonized Tariff System (HS) to classify imports and exports. This replaces the old Tariff Schedule of the United States which had been in effect since 1930.

Most other nations adopted the Harmonized System last year in an effort to standardize tariff classifications worldwide.

On pages 73 through 79, of this issue, we present the Harmonized Tariff ~~Sc~~hedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, published by the U.S. International Trade Commission.

April 1989

Fiber Organon

A Monthly Review

Formerly ***Textile Organon***

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Highlights

- Imports for Consumption of Silk, Linen, Jute, Sisal and Other Fibers...see page 72.
- U.S. Domestic Consumption of Products Including Other Fibers...begins on page 70.
- Harmonized Tariff Schedule of U.S...begins on page 73.

SHIPMENTS:

In March, total manufactured fiber shipments reached 790 million pounds, 7% above the 735 million pounds shipped in February and 1% above the 781 million pounds shipped in March 1988.

March shipments of noncellulosic filament yarn rose 3% to 349 million pounds and staple+tow rose 11% to 386 million pounds.

Contributing to the increase in shipments over the previous month were polyester staple up 13% or 25 million pounds and nylon staple up 10 million pounds or 13%.

Year-to-date domestic shipments of manufactured fiber are up 2% and exports are down 11%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 MAR	1989 FEB	% CHG 3/89-2/89	1988 MAR	% CHG 3/89-3/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
CELLULOSIC								
YARN	18.4	17.0	*+8.2*	18.1	*+1.7*	52.7	50.1	*+5.2*
RAYON STAPLE	36.5	32.1	*+13.7*	38.5	*-5.2*	103.1	107.0	*-3.6*
TOTAL CELLULOSIC	54.9	49.1	*+11.8*	56.6	*-3.0*	155.8	157.1	*-0.8*
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.2	30.5	*+5.6*	34.8	*-7.5*	94.0	94.4	*-0.4*
- CARPET	82.4	77.0	*+7.0*	84.6	*-2.6*	234.1	237.9	*-1.6*
TEXTILE [a]	34.8	33.2	*+4.8*	33.9	*+2.7*	102.0	95.1	*+7.3*
POLYESTER - INDUSTRIAL	30.4	28.7	*+5.9*	30.7	*-1.0*	87.7	86.5	*+1.4*
- TEXTILE [a]	75.0	71.1	*+5.5*	67.7	*+10.8*	218.6	199.0	*+9.8*
OLEFIN	94.2	97.4	*-3.3*	102.4	*-8.0*	290.1	301.0	*-3.6*
TOTAL YARN	349.0	337.9	*+3.3*	354.1	*-1.4*	1026.5	1013.9	*+1.2*
STAPLE+TOW+FIBERFILL								
NYLON	88.7	78.4	*+13.1*	83.6	*+6.1*	249.4	243.7	*+2.3*
ACRYLIC+MODACRYLIC	48.8	46.2	*+5.6*	55.4	*-11.9*	136.7	156.7	*-12.8*
POLYESTER	217.3	192.1	*+13.1*	200.7	*+8.3*	609.9	586.1	*+4.1*
OLEFIN	31.4	31.7	*-0.9*	30.7	*+2.3*	94.1	89.4	*+5.3*
TOTAL STAPLE	386.2	348.4	*+10.8*	370.4	*+4.3*	1090.1	1075.9	*+1.3*
TOTAL NONCELLULOSIC	735.2	686.3	*+7.1*	724.5	*+1.5*	2116.6	2089.8	*+1.3*
TOTAL MANUFACTURED FIBER	790.1	735.4	*+7.4*	781.1	*+1.2*	2272.4	2246.9	*+1.1*
TOTAL SHIPMENTS DIVIDED AS								
DOMESTIC SHIPMENTS [b]	743.5	693.6	*+7.2*	729.0	*+2.0*	2137.6	2094.9	*+2.0*
EXPORTS [c]	46.6	41.8	*+11.5*	52.1	*-10.6*	134.8	152.0	*-11.3*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

TABLE 2:
MANUFACTURED FIBER PRODUCTION, NUMBER OF EMPLOYEES & PRODUCTION PER EMPLOYEE IN SELECTED COUNTRIES
1980-1987

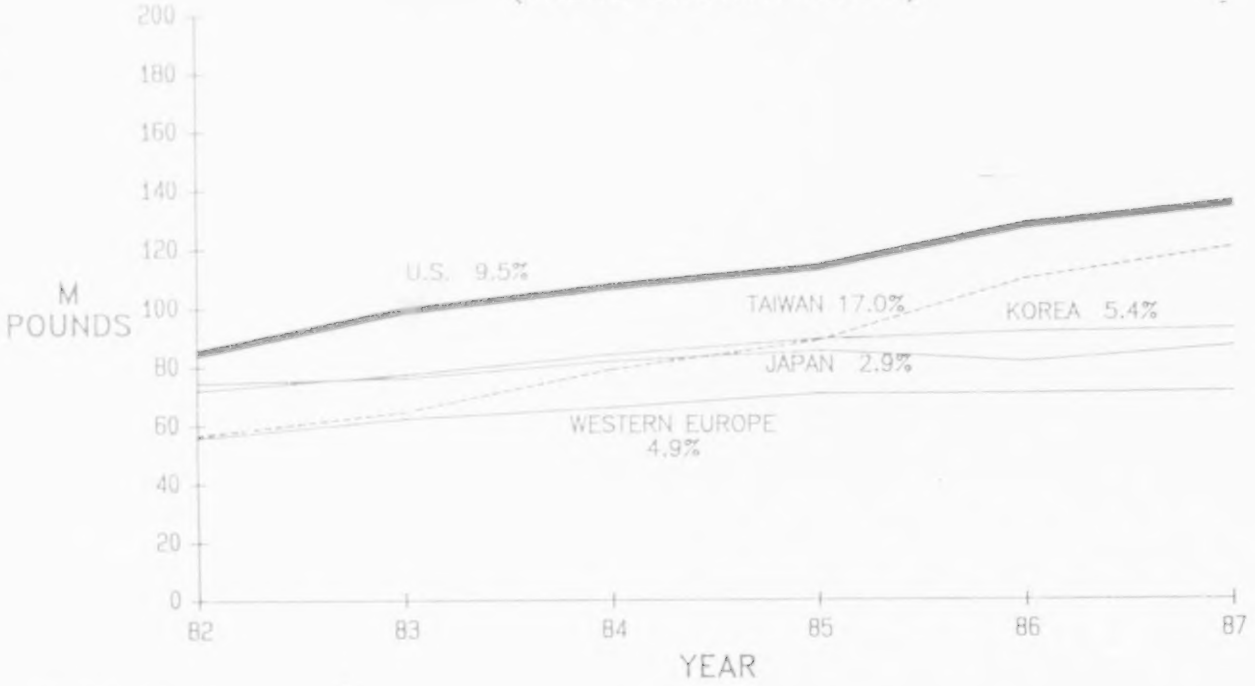
YEAR	MANUFACTURED FIBER PRODUCTION[a] Million Pounds	# OF EMPLOYEES[a]	PRODUCTION[a] PER EMPLOYEE Thousand Pounds
U.S.A.			
1982	6319.6	74619	84.7
1983	7272.6	73150	99.4
1984	7103.4	66032	107.6
1985	6872.1	60340	113.9
1986	7053.7	55058	128.1
1987	7427.0	54860	135.4
JAPAN			
1982	3706.7	49695	74.6
1983	3761.0	49200	76.4
1984	3850.7	46885	82.1
1985	3947.5	46195	85.5
1986	3693.9	45235	81.7
1987	3617.9	41570	87.0
TAIWAN			
1982	1595.5	28065	56.7
1983	1851.0	28575	64.7
1984	2204.2	27785	79.3
1985	2525.3	28375	88.9
1986	2980.7	27110	110.0
1987	3331.0	27600	120.7
KOREA, REP. OF			
1982	1385.0	19220	72.1
1983	1492.4	19230	77.6
1984	1673.9	19830	84.4
1985	1819.6	20325	89.5
1986	1931.4	21005	91.9
1987	2167.8	23335	92.9
WESTERN EUROPE[b]			
1982	5734.8	102865	55.8
1983	6081.1	97425	62.4
1984	6311.8	95290	66.2
1985	6418.6	90700	70.8
1986	6197.2	87360	70.9
1987	6171.7	86375	71.5

Source: C.I.R.F.S., Taiwan Man-Made Fiber Industry and Fiber Ecomics Bureau, Inc.

a. Including Cellulosic & Noncellulosic Fiber, except olefin.

b. Excluding Greece and Turkey.

GRAPH 1:
MANUFACTURED FIBERS 1982 – 1987
ANNUAL PRODUCTION PER EMPLOYEE
(TREND GROWTH RATES)



NOTE OF LIMITATION

"PRODUCTION" may or may not include olefin and specialty fibers. Major differences in product mix (filament vs. staple, textile vs. industrial products, etc.) impact productivity.

"EMPLOYMENT" may or may not include administration, marketing, research and development and support personnel. This analysis must therefore be viewed with considerable caution as to valid comparability.

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS INCLUDING OTHER FIBERS
MILLION POUNDS & *PERCENT*

	MANUFACTURED FIBER MILL CONSUMPTION: PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																				
	CELLULOSIC FIBER											NONCELLULOSIC FIBER									
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE			
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1974	473.4	9.2	482.6	589.2	38.7	627.9	28.9	3.2	33.0	2.9	1107.6	3142.3	92.1	3234.4	2450.5	73.2	2523.7	246.4	46.3	91.2	201.5	5959.6
1975	368.6	9.2	377.8	385.4	37.9	423.3	24.2	3.1	12.4	0.9	802.0	3214.8	53.8	3268.6	2553.5	55.2	2608.7	228.7	25.0	50.0	203.7	6081.0
1976	314.5	25.1	339.6	470.0	45.2	515.2	14.7	0.4	14.5	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	19.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.8	41.1	507.9	15.7	0.4	7.0	9.1	879.7	3641.3	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	14.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	931.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.9	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.5	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	16.3	0.8	5.8	11.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	14	0.8	1.4	14.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.9	0.8	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.7	3.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.8	12.9	396.7	9.6	0.3	1.1	8.8	585.6	3303.2	123.9	3927.1	3987.4	189.0	4176.4	239.1	47.0	113.5	172.6	8276.1
1988	182.6	17.6	200.2	386.5	20.4	406.9	7.8	2	2.3	5.8	612.9	4913.9	116.3	4030.2	4022.0	196.2	4218.2	254.1	40.5	144.4	150.2	8398.6

Continued on opposite page

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS INCLUDING OTHER FIBERS *(CONTINUED)*

MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 4 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS												
	MANUFAC. FIBER		COTTON		WOOL		OTHER FIBERS		TOTAL		MANUFACTURED FIBER			COTTON			WOOL			OTHER FIBERS	TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	IMP	EXP	CONS
	(23)		(24)		(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1974	7067.2	66.1	3306.1	30.9	116.5	1.1	200.8	1.9	10690.6	100.0	371.3	390.7	7047.8	502.7	392.5	3416.3	53.3	23.0	146.8	1447.3	2374.6	806.2	12058.2
1975	6883.0	67.4	3068.7	30.0	132.0	1.3	133.4	1.3	10217.1	100.0	400.4	322.4	6961.0	501.3	353.7	3216.3	48.6	19.2	161.4	904.6	1854.9	695.3	11243.3
1976	7374.9	66.7	3389.0	30.6	145.9	1.3	152.1	1.4	11061.9	100.0	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1117.0	2371.8	779.3	12502.3
1977	8096.2	70.1	3169.8	27.5	133.9	1.2	144.6	1.2	11544.5	100.0	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1071.4	2357.4	748.7	13008.6
1978	8341.0	71.4	3040.4	26.0	141.6	1.2	168.4	1.4	11691.4	100.0	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1086.1	2666.3	809.0	13380.3
1979	8523.4	71.7	3066.4	25.8	134.4	1.1	167.9	1.4	11892.1	100.0	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1021.9	2373.6	1088.6	13009.2
1980	7885.7	70.3	3064.4	27.4	137.8	1.2	127.1	1.1	11215.0	100.0	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	807.0	2243.6	1318.4	12013.1
1981	7721.5	71.9	2730.8	25.5	152.7	1.4	129.1	1.2	10734.1	100.0	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	794.7	2488.8	1016.8	12077.0
1982	6653.5	70.8	2478.9	26.4	129.5	1.4	130.0	1.4	9391.9	100.0	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	648.4	2343.6	702.7	10902.8
1983	7994.5	72.3	2795.7	25.2	162.5	1.5	106.5	1.0	11059.2	100.0	1069.4	460.7	8603.2	1135.4	219.6	3711.5	149.8	11.6	300.7	690.3	3044.9	691.9	13305.7
1984	7789.5	72.7	2668.2	24.9	163.2	1.5	95.7	0.9	10716.6	100.0	1342.6	487.9	8644.2	1465.6	204.6	3929.2	210.2	12.0	361.4	680.1	3698.5	704.5	13614.9
1985	8035.5	72.6	2796.0	25.3	134.7	1.2	103.6	0.9	11069.8	100.0	1491.0	499.1	9027.4	1629.2	213.2	4212.0	264.8	17.8	381.7	646.9	4031.9	730.1	14268.0
1986	8453.9	70.3	3301.7	27.4	164.5	1.4	103.3	0.9	12023.4	100.0	1703.0	519.3	9637.6	1910.5	274.8	4937.4	275.6	16.0	424.1	582.4	4471.5	810.1	15581.5
1987	8861.7	68.9	3736.5	29.0	167.6	1.3	104.8	0.8	12870.5	100.0	1805.4	591.9	10075.2	2335.7	298.0	5774.2	258.3	21.3	404.6	603.5	5002.9	911.2	16857.5
1988	9011.5	71.2	3401.0	26.9	156.1	1.2	83.8	0.7	12652.4	100.0	1735.7	684.6	10062.6	2118.8	330.2	5789.6	242.4	30.6	367.9	511.0	4607.9	1045.4	16131.1

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

All Census import and export commodity numbers are as of January 1987.

1 & 4: March issue on page 50.
12 & 15: March issue on page 51.
7 & 18: March issue on page 47.
2: Import Classes 309.0310, .0610, 2000, 310.0106, .0130, .0206, .0230 & .0610.
5: Import Classes 309.3010, .3310, .4320 & .4325.
8: Import Classes 309.6615 & .7510.
9: Export Class 309.7400.
13: Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650.
16: Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390.
19: Import Classes 309.6625, .6630, .6645, .6660, .7000 & .7525 - .7555.
20: Export Classes 309.7620, .7630, .7640 & .7660.
24: U.S. Census Bureau Report M22P.
25: U.S. Census Bureau Report M22D.
26: This issue page 72.
28, 29, 31, 32, 34 & 35: Cotton and Wool Outlook & Situation (U.S. Department of Agriculture).
37: This issue page 72.

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)

10: Columns 7+8+9.
21: Columns 18+19+20.
23: Columns 11+22.
30: Columns 23+28+29.
33: Columns 24+31+32.
36: Columns 25+34+35.
40: Columns 27+38+39+26.

TABLE 4:
IMPORTS FOR CONSUMPTION
MILLION POUNDS

	SILK				LINEN				JUTE				SISAL & OTHERS				TOTAL
YEAR	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	IMP TO THE LEFT
1974	2.6	1.0	0.6	4.2	2.2	6.8	34.3	43.3	62.4	798.4	9.7	870.5	133.6	8.9	386.8	529.3	1447.3
1975	1.0	0.3	0.7	2.0	0.6	4.3	28.4	33.5	46.9	488.8	20.8	556.5	84.7	8.4	218.9	312.0	904.6
1976	2.8	1.4	1.3	5.5	0.9	4.8	34.3	40.0	46.2	583.3	60.9	690.4	102.2	7.6	271.3	381.1	1117.0
1977	1.6	2.0	1.8	5.4	0.4	1.4	35.2	37	26.7	597.9	29.2	653.8	115.9	3.7	253.6	373.2	1071.4
1978	2.0	3.6	3.5	9.1	1.0	5.2	36.2	42.4	37.6	588.6	38.2	664.4	127.8	8.4	234.0	370.2	1086.1
1979	1.5	2.8	3.9	8.2	0.9	5.1	30.4	36.4	48.5	488.8	13.5	550.8	117.0	4.7	304.8	426.5	1021.9
1980	1.0	3.1	4.4	8.5	0.6	2.9	27.7	31.2	20.9	380.4	13.6	414.9	104.6	5.6	242.2	352.4	807.0
1981	1.9	4.6	1.2	7.7	2.9	2.2	22.2	27.3	34.5	370.4	8.4	413.3	89.8	31.8	224.8	346.4	794.7
1982	2.0	4.2	1.7	7.4	7.8	1.5	20.0	29.3	35.2	268.5	5.8	309.5	85.0	30.0	187.2	302.2	648.4
1983	1.6	6.1	1.4	9.1	3.8	2.3	a	6.1	30.4	297.8	6.6	334.8	70.7	29.5	240.1	340.3	690.3
1984	1.4	7.0	2.3	10.7	4.8	3.2	a	8.0	20.0	261.8	4.8	286.6	69.5	41.4	263.9	374.8	680.1
1985	1.5	6.4	2.1	10.2	3.0	1.3	a	4.3	32.6	201.2	7.2	241.0	66.5	33.8	291.1	391.4	646.9
1986	1.0	6.9	2.4	10.3	3.0	1.7	a	4.7	30.4	230.5	6.9	267.8	68.9	27.1	203.6	299.6	582.4
1987	1.4	8.2	1.6	11.2	2.7	1.5	a	4.2	31.5	247.4	6.4	285.3	69.2	27.1	206.5	302.8	603.5
1988[b]	0.9	8.0	2.2	11.1	3.4	1.5	a	4.9	29.1	175.6	8.0	212.9	50.2	21.2	210.7	282.1	511.0

SOURCE: U.S. Dept. of Commerce, Office of Textiles & Apparel

a. Due to changes in the tariff classifications, Linen Finished Goods are included in Sisal & Others Finished Goods.

b. These figures are preliminary for 1988.

Because these fibers are not grown in the United States (flax production is nominal) imports are taken as the total available supply.

SILK: **Raw material** means raw silk plus silk waste & noils. **Semimanufactured** means spun & thrown silk yarns and silk fabrics. **Finished goods** are mainly scarves, handkerchiefs, blouses and laces.

LINEN: **Raw material** includes hackled and unhackled flax, noils, tow & straw. **Semimanufactured** includes linen yarn, sliver & roving. **Finished goods** are mainly fabrics, handkerchiefs, toweling, napery & dresses.

JUTE: **Raw material** includes unmanufactured jute and jute butts. **Semimanufactured** means yarn & roving, new & waste bagging and burlap in the piece. **Finished goods** are mainly cordage, bags and webbing.

SISAL & OTHERS: includes all of the *hard or leaf fibers* (e.g., abaca or manila hemp, coir, crin, henequen, istle or tampico, sisal, etc.) **imported** into the United States plus the *soft or bast fibers* (e.g., hemp, ramie, sunn, etc.) except flax or linen and jute, which are tabulated separately here. **Semimanufactured** is chiefly coir yarns & roving. **Finished goods** are mainly cordage and twine.

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5401			Sewing thread of man-made filaments, whether or not put up for retail sale:				
5401.10.00	00	2	Of synthetic filaments (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%
5401.20.00	00	0	Of artificial filaments (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%
5402			Synthetic filament yarn (other than sewing thread), not put up for retail sale, including synthetic monofilament of less than 67 decitex:				
5402.10			High tenacity yarn of nylon or other polyamides:				
5402.10.30			Single yarn		10%	Free (IL) 9% (CA)	50%
	20	1	Monofilament, multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	7	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5402.10.60	00	8	Multiple (folded) or cabled (606)	kg	9.1%	3.6% (IL) 8.1%(CA)	55%
5402.20			High tenacity yarn of polyesters:				
5402.20.30			Single yarn		10%	Free (IL) 9% (CA)	50%
	20	9	Monofilament, multifilament, untwisted or with twist of less than 5 turns per meter	kg			
	40	5	Multifilament, with twist of 5 turns or more per meter (606)	kg			
5402.20.60	00	6	Multiple (folded) or cabled (606)	kg	9.1%	3.6% (IL) 8.1%(CA)	55%
			Textured yarn:				
5402.31			Of nylon or other polyamides, measuring per single yarn not more than 500 decitex:				
5402.31.30	00	0	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.31.60	00	3	Multiple (folded) or cabled yarn (600)	kg	9.1%	Free (IL) 8.1% (CA)	55%
5402.32			Of nylon or other polyamides, measuring per single yarn more than 500 decitex:				
5402.32.20	00	9	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.32.60	00	2	Multiple (folded) or cabled yarn (600)	kg	9.1%	Free (IL) 8.1% (CA)	55%
5402.33			Of polyesters:				
5402.33.30	00	8	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.33.60	00	1	Multiple (folded) or cabled yarn (600)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%
5402.39			Other:				
5402.39.30	00	2	Single yarn (600)	kg	10%	Free (IL) 9% (CA)	50%
5402.39.60	00	5	Multiple (folded) or cabled yarn (600)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%

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Heading/ Subheading	Stat. Suf. & cd		Article Description		Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5402 (con.)			Synthetic filament yarn (other than sewing thread), not put up for retail sale, including synthetic monofilament of less that 67 decitex (con.):					
			Other yarn, single, untwisted or with a twist not exceeding 50 turns/m:					
5402.41.00			Of nylon or other polyamides			10% 1/	Free (IL) 9% (CA)	50%
	20	0	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	6	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5402.42.00	00	9	Of polyesters, partially oriented	(606)	kg	10%	4% (IL) 9% (CA)	50%
5402.43.00			Of polyesters, other:			10%	4% (IL) 9% (CA)	50%
	20	8	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	4	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5402.49.00			Other			10% 1/	4% (IL) 9% (CA)	50%
	20	2	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	8	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
			Other yarn, single, with a twist exceeding 50 turns/m:					
5402.51.00	00	1	Of nylon or other polyamides	(606)	kg	10%	4% (IL) 9% (CA)	50%
5402.52.00	00	0	Of polyesters	(606)	kg	10%	Free (IL) 9% (CA)	50%
5402.59.00	00	3	Other	(606)	kg	10%	4% (IL) 9% (CA)	50%
			Other yarn, multiple (folded) or cabled:					
5402.61.00	00	9	Of nylon or other polyamides	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5402.62.00	00	8	Of polyesters	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5402.69.00	00	1	Other	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%

1/ Duty on certain yarns temporarily suspended. See subheading 9902.54.02.

Heading/ Subheading	Stat. Suf. & cd		Article Description		Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5403			Artificial filament yarn (other than sewing thread), not put up for retail sale, including artificial monofilament of less than 67 decitex:					
5403.10			High tenacity yarn of viscose rayon:					
5403.10.30			Single yarn			10%	Free (IL) 9% (CA)	50%
	20	0	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	6	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5403.10.60	00	7	Multiple (folded) or cabled	(606)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%
5403.20			Textured yarn:					
5403.20.30	00	2	Single yarn	(600)	kg	10%	Free (IL) 9% (CA)	50%
5403.20.60	00	5	Multiple (folded) or cabled	(600)	kg	9.1%	3.6% (IL) 8.1% (CA)	55%
			Other yarn, single:					
5403.31.00			Of viscose rayon, untwisted or with a twist not exceeding 120 turns/m			10%	Free (IL) 9% (CA)	50%
	20	1	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	7	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5403.32.00	00	4	Of viscose rayon, with a twist exceeding 120 turns/m	(606)	kg	10%	4% (IL) 9% (CA)	50%
5403.33.00			Of cellulose acetate			10%	Free (IL) 9% (CA)	50%
	20	9	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	5	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
5403.39.00			Other			10%	Free (IL) 9% (CA)	50%
	20	3	Monofilament; multifilament, untwisted or with twist of less than 5 turns per meter		kg			
	40	9	Multifilament, with twist of 5 turns or more per meter	(606)	kg			
			Other yarn, multiple (folded) or cabled:					
5403.41.00	00	3	Of viscose rayon	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5403.42.00	00	2	Of cellulose acetate	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%
5403.49.00	00	5	Other	(606)	kg	9.1%	3.7% (IL) 8.1% (CA)	55%

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Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty 1 General	Special	2
5404			Synthetic monofilament of 67 decitex or more and of which no cross-sectional dimension exceeds 1 mm; strip and the like (for example, artificial straw) of synthetic textile materials of an apparent width not exceeding 5 mm:				
5404.10			Monofilament:				
5404.10.10	00	7	Racket strings	kg	3.1%	Free (A,E,IL) 2.7% (CA)	30%
5404.10.20			Other:		7.8%	3.1% (IL) 7% (CA)	50%
	20	1	Of nylon or other polyamides	kg			
	40	7	Of polyesters	kg			
	90	6	Other	kg			
5404.90.00	00	2	Other	kg	5.1%	Free (A) 2.1% (IL) 4.5% (CA)	45%
5405.00			Artificial monofilament of 67 decitex or more and of which no cross-sectional dimension exceeds 1 mm; strip and the like (for example, artificial straw) of artificial textile materials of an apparent width not exceeding 5 mm:				
5405.00.30	00	4	Monofilament	kg	7.8%	3.1% (IL) 7% (CA)	50%
5405.00.60	00	7	Other	kg	6.5%	Free (A) 2.6% (IL) 5.9% (CA)	45%
5406			Man-made filament yarn (other than sewing thread), put up for retail sale:				
5406.10.00			Synthetic filament yarn:		13%	Free (IL) 11.7% (CA)	55%
	20	3	Of acrylic (200)	kg			
	40	9	Of polyesters (200)	kg			
	90	8	Other (200)	kg			
5406.20.00	00	5	Artificial filament yarn (200)	kg	13%	Free (IL) 11.7% (CA)	55%

Heading/ Subheading	Stat. Suf. & cd		Article Description	Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5501			Synthetic filament tow				
5501.10.00	00	1	Of nylon or other polyamides	kg	10%	Free (IL) 9% (CA)	45%
5501.20.00	00	9	Of polyesters	kg	10%	4% (IL) 9% (CA)	45%
5501.30.00	00	7	Acrylic or modacrylic	kg	10%	4% (IL) 9% (CA)	45%
5501.90.00	00	4	Other	kg	10%	4% (IL) 9% (CA)	45%
5502.00.00	00	2	Artificial filament tow	kg	10%	4% (IL) 9% (CA)	45%
5503			Synthetic staple fibers, not carded, combed or otherwise processed for spinning				
5503.10.00	00	9	Of nylon or other polyamides	kg	4.9%	Free (IL) 4.4% (CA)	25%
5503.20.00	00	7	Of polyesters	kg	4.9%	Free (IL) 4.4% (CA)	25%
5503.30.00	00	5	Acrylic or modacrylic	kg	4.9%	Free (IL) 4.4% (CA)	25%
5503.40.00	00	3	Of polypropylene	kg	4.9%	2% (IL) 4.4% (CA)	25%
5503.90.00	00	2	Other	kg	4.9%	2% (IL) 4.4% (CA)	25%
5504			Artificial staple fibers, not carded, combed or otherwise processed for spinning				
5504.10.00	00	8	Of viscose rayon	kg	4.9%	Free (IL) 4.4% (CA)	25%
5504.90.00	00	1	Other	kg	4.9%	Free (IL) 4.4% (CA)	25%
5505			Waste (including noils, yarn waste and garnetted stock) of man-made fibers				
5505.10.00	00	8	Of synthetic fibers		2.1%	0.9% (IL) 1.8% (CA)	10%
	20	3	Of nylon or other polyamides	kg			
	40	9	Of polyesters	kg			
	60	4	Other	kg			
5505.20.00	00	5	Of artificial fibers	kg	2.1%	0.9% (IL) 1.8% (CA)	10%
5506			Synthetic staple fibers,carded, combed or otherwise processed for spinning				
5506.10.00	00	6	Of nylon or other polyamides	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5506.20.00	00	4	Of polyesters	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5506.30.00	00	2	Acrylic or modacrylic	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5506.90.00	00	9	Other	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5507.00.00	00	7	Artificial staple fibers, carded, combed or otherwise processed for spinning	kg	6.5%	2.6% (IL) 5.8% (CA)	51.5%
5508			Sewing thread of man-made staple fibers, whether or not put up for retail sale:				
5508.10.00	00	4	Of synthetic staple fibers (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%
5508.20.00	00	2	Of artificial staple fibers (200)	kg	13%	5.2% (IL) 11.7% (CA)	55%

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Heading/ Subheading	Stat. Suf. & cd		Article Description		Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5509			Yarn (other than sewing thread) of synthetic staple fibers, not put up for retail sale:					
			Containing 85 percent or more by weight of staple fibers of nylon or other polyamides:					
5509.11.00	00	2	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.12.00	00	1	Multiple (folded) or cabled yarn	(604)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
			Containing 85 percent or more by weight of polyester staple fibers:					
5509.21.00	00	0	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.22.00			Multiple (folded) or cabled yarn:			12%	4.8% (IL) 10.8% (CA)	61.5%
	10	7	Multiple (folded), with a final "Z" twist	(200)	kg			
	90	0	Other	(604)	kg			
			Containing 85 percent or more by weight of acrylic or modacrylic staple fibers:					
5509.31.00	00	8	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.32.00	00	7	Multiple (folded) or cabled yarn	(604)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
			Other yarn, containing 85 percent or more by weight of synthetic staple fibers:					
5509.41.00	00	6	Single yarn	(604)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.42.00	00	5	Multiple (folded) or cabled yarn	(604)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
			Other yarn, of polyester staple fibers:					
5509.51			Mixed mainly or solely with artificial staple fibers:					
5509.51.30	00	7	Single yarn	(607)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.51.60	00	0	Multiple (folded) or cabled yarn	(607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5509.52.00	00	2	Mixed mainly or solely with wool or fine animal hair	(607)	kg	8%	6% (IL) 13.5% (CA)	81%
5509.53.00			Mixed mainly or solely with cotton:			8%	6% (IL) 13.5% (CA)	81%
	30	5	Not exceeding 52 mm	(607)	kg			
	60	8	Exceeding 52 mm	(607)	kg			
5509.59.00	00	5	Other	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
			Other yarn, of acrylic or modacrylic staple fibers:					
5509.61.00	00	1	Mixed mainly or solely with wool or fine animal hair	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.62.00	00	0	Mixed mainly or solely with cotton	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.69			Other:					
			Mixed mainly or solely with artificial staple fibers:					
5509.69.20	00	9	Single yarn	(607)	kg	11%	Free (IL) 9.9% (CA)	54%
5509.69.40	00	5	Multiple (folded) or cabled yarn	(607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5509.69.60	00	0	Other	(607)	kg	15%	6% (IL) 13.5% (CA)	81%

Heading/ Subheading	Stat. Suf. & cd		Article Description		Units of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
5509 (con.)			Yarn (other than sewing thread) of synthetic staple fibers, not put up for retail sale (con.):					
			Other yarn:					
5509.91.00	00	5	Mixed mainly or solely with wool or fine animal hair	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.92.00	00	4	Mixed mainly or solely with cotton	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5509.99			Other:					
			Mixed mainly or solely with artificial staple fibers:					
5509.99.20	00	3	Single yarn	(607)	kg	11%	4.4% (IL) 9.9% (CA)	54%
5509.99.40	00	9	Multiple (folded) or cabled yarn	(607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5509.99.60	00	4	Other	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5510			Yarn (other than sewing thread) of artificial staple fibers, not put up for retail sale:					
			Containing 85 percent or more by weight of artificial staple fibers:					
5510.11.00	00	9	Single yarn	(603)	kg	11%	Free (IL) 9.9% (CA)	54%
5510.12.00	00	8	Multiple (folded) or cabled yarn	(603)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5510.20.00	00	8	Other yarn, mixed mainly or solely with wool or fine animal hair	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5510.30.00	00	6	Other yarn, mixed mainly or solely with cotton	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5510.90			Other yarn:					
			Mixed mainly or solely with synthetic staple fibers:					
5510.90.20	00	9	Single yarn	(607)	kg	11%	Free (IL) 9.9% (CA)	54%
5510.90.40	00	5	Multiple (folded) or cabled yarn	(607)	kg	12%	4.8% (IL) 10.8% (CA)	61.5%
5510.90.60	00	0	Other	(607)	kg	15%	6% (IL) 13.5% (CA)	81%
5511			Yarn (other than sewing thread) of man-made staple fibers, put up for retail sale:					
5511.10.00			Of synthetic staple fibers, containing 85 percent or more by weight of such fibers			13%	Free (IL) 11.7% (CA)	65%
	30	3	Acrylic or modacrylic	(200)	kg			
	60	6	Other	(200)	kg			
5511.20.00	00	7	Of synthetic staple fibers, containing less than 85 percent or more by weight of such fibers	(200)	kg	13%	Free (IL) 11.7% (CA)	65%
5511.30.00	00	5	Of artificial staple fibers	(200)	kg	13%	Free (IL) 11.7% (CA)	65%

TABLE 5:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	17.3	17.0	18.4										52.7	50.1
RAYON STAPLE	34.5	32.1	36.5										103.1	107.0
TOTAL CELLULOSIC	51.8	49.1	54.9										155.8	157.1
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON – INDUSTRIAL[d]	31.3	30.5	32.2										94.0	94.4
– CARPET	74.7	77.0	82.4										234.1	237.9
– TEXTILE[f]	34.0	33.2	34.8										102.0	95.1
POLYESTER – INDUSTRIAL[d]	28.6	28.7	30.4										87.7	86.5
– TEXTILE[f]	72.5	71.1	75.0										218.6	199.0
OLEFIN[e]	98.5	97.4	94.2										290.1	301.0
TOTAL YARN	339.6	337.9	349.0										1026.5	1013.9
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.7										249.4	243.7
ACRYLIC+MODACRYLIC	41.7	46.2	48.8										136.7	156.7
POLYESTER	200.5	192.1	217.3										609.9	586.1
OLEFIN	31.0	31.7	31.4										94.1	89.4
TOTAL STAPLE	355.5	348.4	386.2										1090.1	1075.9
TOTAL NONCELLULOSIC	695.1	686.3	735.2										2116.6	2089.8
TOTAL MANUFACTURED FIBER	746.9	735.4	790.1										2272.4	2246.9
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	11.7	10.9	11.3										11.3	13.2
RAYON STAPLE	13.0	13.2	11.7										11.7	20.3
TOTAL CELLULOSIC	24.7	24.1	23.0										23.0	33.5
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON – INDUSTRIAL[d]	24.4	24.7	22.4										22.4	23.5
– CARPET	63.5	63.3	62.8										62.8	67.0
– TEXTILE[f]	47.1	48.2	46.4										46.4	50.0
POLYESTER – INDUSTRIAL[d]	35.0	31.4	30.5										30.5	28.8
– TEXTILE[f]	75.6	76.9	83.1										83.1	79.5
OLEFIN[e]	53.0	54.1	55.5										55.5	53.5
TOTAL YARN	296.6	298.6	300.7										300.7	302.3
STAPLE+TOW+FIBERFILL														
NYLON	51.8	53.0	50.9										50.9	57.5
ACRYLIC+MODACRYLIC	70.6	68.3	68.3										68.3	55.4
POLYESTER	163.5	163.8	161.0										161.0	157.8
OLEFIN	31.0	31.4	32.9										32.9	35.0
TOTAL STAPLE	316.9	316.5	313.1										313.1	305.7
TOTAL NONCELLULOSIC	613.5	615.1	613.8										613.8	608.0
TOTAL MANUFACTURED FIBER	638.2	639.2	636.8										636.8	641.5
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	11.8												11.8	12.9
CARPET CLASS WOOL	0.8												0.8	1.4
TOTAL RAW WOOL	12.6												12.6	14.3
RAW COTTON	288.2												288.2	300.0

a. "Year to date" totals for stock are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.